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INT.CL.

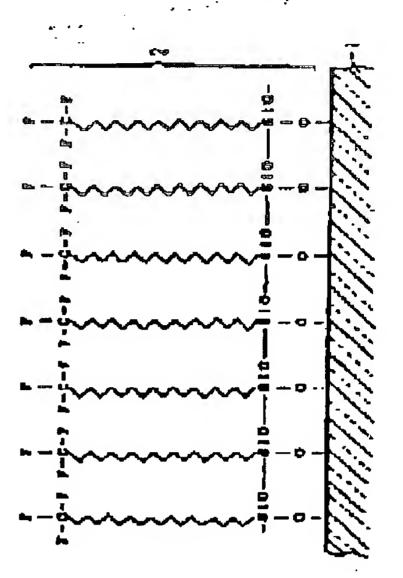
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TITLE

WATER-REPELLENT OIL-REPELLENT

STAINPROOF FILM AND MANUFACTURE THEREOF



ABSTRACT :

PURPOSE: To form a film having an extremely high water-repellent oil-repellent stainproof effect without damaging gloss original to a base body by forming irregularities less than the wavelength (400nm) of visible light to the surface of a base material and forming a carbon fluoride group monomolecular film in film thickness at a nanometer on the surface of the base material through a siloxane bond.

CONSTITUTION: Irregularities in approximately 0.1 micron are formed to the surface of a glass plate, and the glass plate is dipped in a solution, in which a surface-active agent such as CF₃(CF₂)₇(CH₂)₂SiCl₃ is diluted into an organic solvent. A natural oxide film is formed on the surface of the glass plate, and a large number of hydroxyl groups are contained in the surface of the oxide film, thus generating dehydrochlorination reaction, then shaping a carbon fluoride monomolecular film on the surface of a base body through a siloxane bond.

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